### NOTES

#### Basis of Design:

- WATER SUPPLY: No net increase in design flow, relocating units within existing community system.
- 1) Design flow = per unit basis for community water: 360 gpd/unit = 1080 gpd
- 2) Instantaneous peak demand (gpm) = 5 gpm (per unit) 3) Source: WSID: VT0005086
- 4) Storage capacity = no change
- 5) Pump capacities = n/a
- 6) Operating pressure ranges = 30-50 psi
- 7) Reference to the floodplain = this project is not in the floodplain
- 8) A pressure reduction valve may be required at the house connection to reduce the static pressure in the new line.
- WASTEWATER SYSTEM: No net increase in design flow, relocating units within existing community system.
- 1) Design flow = per unit basis for shared system 204 gpd/unit = 612 gpd Calculated per ID-9-0035 @ 29,823 gpd for 146 units = 204 gpd/unit

## Inspections and Certifications:

- 1) It is the owner's/ contractor's responsibility to contact the
- consultant (McCain Consulting 802-244-5093) for the following:
- a) For inspection of the pressurization of the force main to 50 psi. b) To observe pump operation and to verify discharge height at the leachfield.
- 2) The septic system installer will provide the consultant with a signed and dated statement as follows:
- "I hereby certify that the installation-related information submitted is true and correct, and that in the exercise of my reasonable professional
- judgment, the wastewater system has been installed in accordance with the permitted design and all permit conditions, was inspected, was properly tested, and has successfully met those performance tests.
- 4) The certification of construction as required by section 1-311(b) of the Environmental Protection Rules may not be provided by the designer if the procedures outlined herein are not followed.

#### Maintenance:

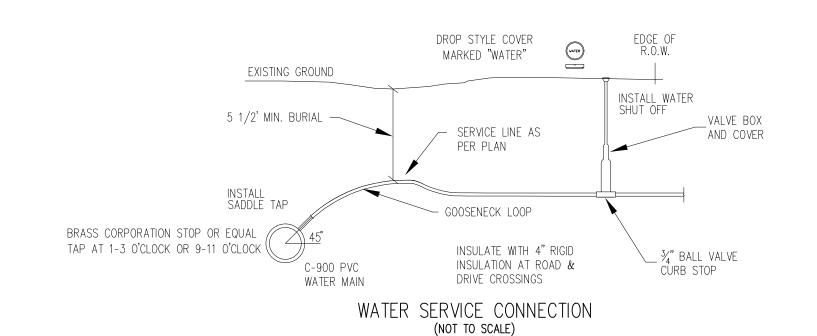
- (1) At least once a year, the depth of sludge and scum in the septic
- tank should be measured. The tank should be pumped if:
- (a) The sludge is closer than twelve inches to the outlet baffle,or (b) The scum layer is closer than three inches to the septic tank outlet baffle.
- (c) Following septic tank cleaning in units over 5,000 gallons, all interior surfaces of the tank should be inspected for leaks and cracks.

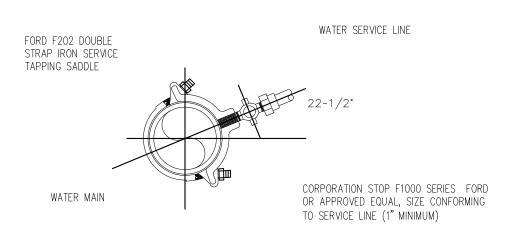
#### (2) At least twice a year, the outlet filter on the septic tank should be removed and cleaned by spraying it with water under normal

(3) At least once a year, dosing tanks and distribution boxes should be opened and settled solids removed as necessary and the dosing tank or distribution box checked for levelness.

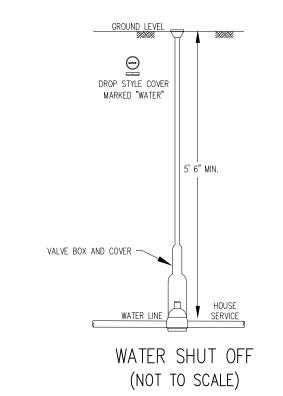
#### (4) At least once a year, pump stations should be inspected:

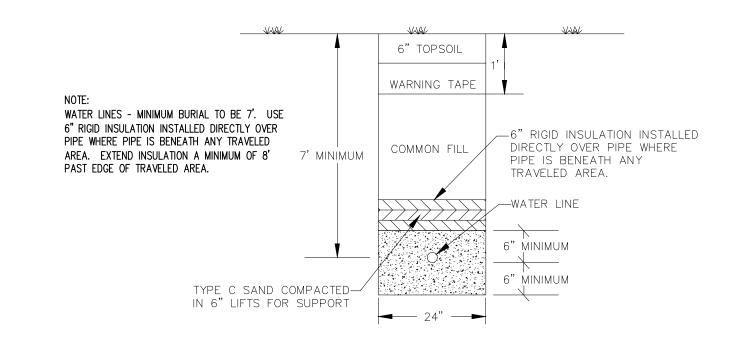
- (a) Remove settled solids as necessary. Solids and scum accumulation in the pump station may be indicative of a septic tank outlet filter malfunction, septic tank overloading, or other cause
- that should be investigated and remedied. (b) On/off and alarm floats should be tripped to ensure proper
- (c) Inspect delivery of filtrate to the leachfield. Slow delivery may indicate impending pump failure.
- (5) Toxic or hazardous substances should in general not be disposed of in septic systems. These substances may pass through the
- system in an unaltered state and contaminate groundwater or remain in the septage and subsequently contaminate the soil or corps at the site of ultimate disposal.
- (6) The leachfields are not designed for the disposal of filter backwash or other byproducts of water treatment, filtration or purification systems.



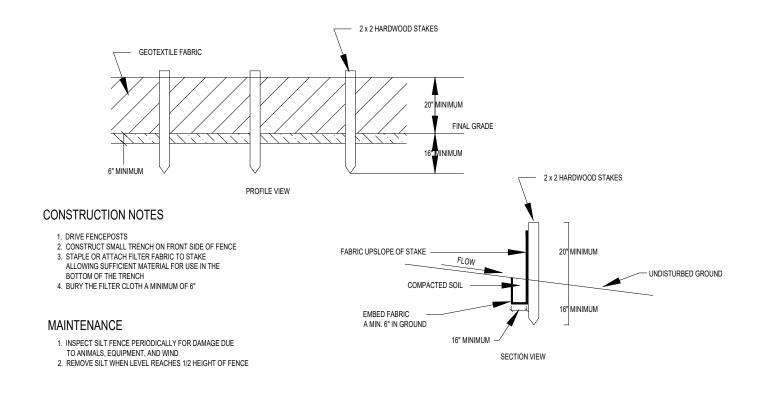


TYPICAL TAPPING SLEEVE (NOT TO SCALE)

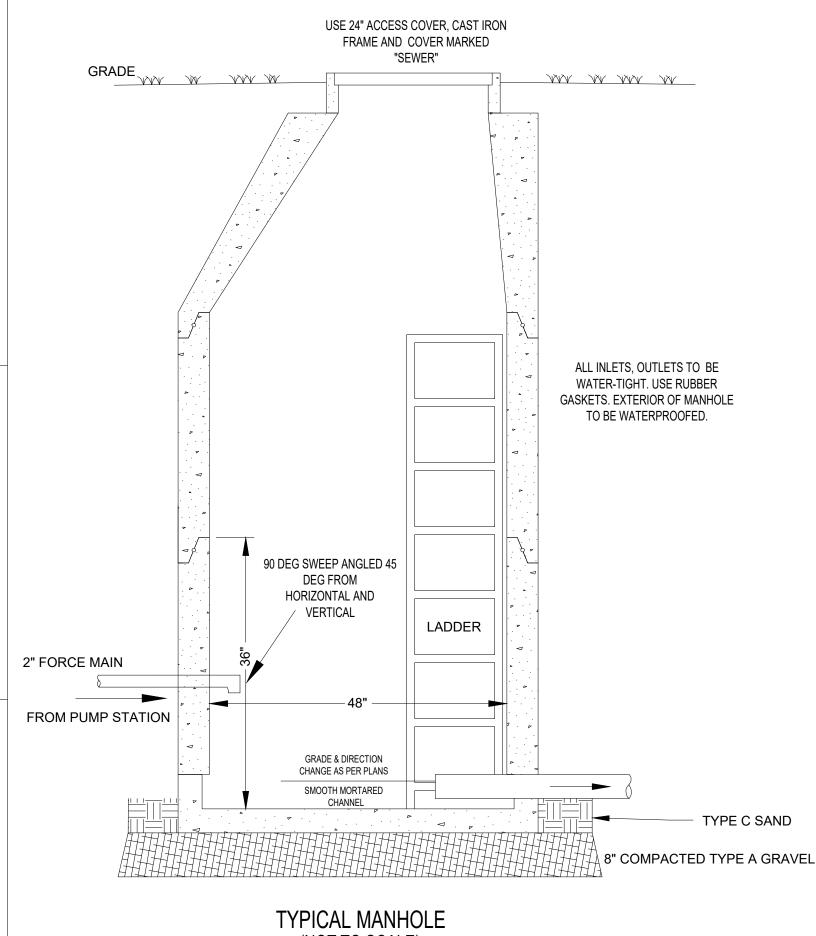




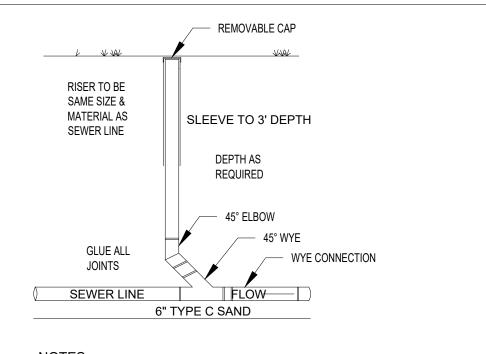
WATER LINE TRENCH DETAIL (NOT TO SCALE)



**EROSION CONTROL NUMBER 4** SILT FENCE DETAIL (NOT TO SCALE)



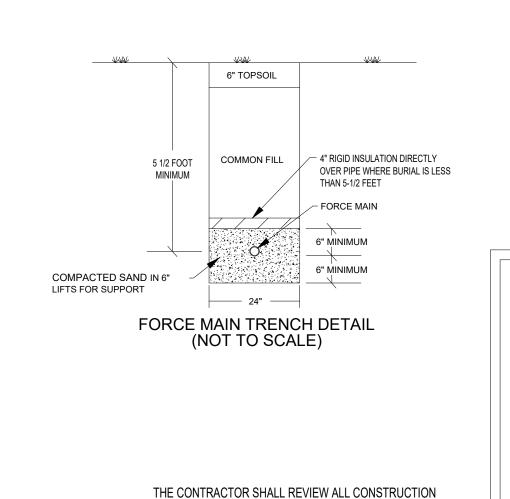
# (NOT TO SCALE)



NOTES: 1. PVC PIPE IS TO MEET ASTM D3034-SDR35.

2. PUSH 0N JOINTS TO MEET ASTM D3212.

SEWER CLEAN-OUT SECTION (NOT TO SCALE)



ENGINEER:

PUMP PARAMETERS: PUMP IS TO DELIVER 25 GPM AT 12 FEET TDH. THE PUMP IS TO BE SUPPLIED WITH STANDARD ALARM AND CONTROLS AS SUPPLIED BY THE MANUFACTURER VOLUMES AND FLOAT SETTINGS ARE BASED ON A 1000 GALLON PUMP STATION MANUFACTURED BY S.T. GRISWOLD AND COMPANY INC., CATALOG FILE 1000 2PC PS INSIDE DIMENSIONS VARY WITH EACH TANK SUPPLIER Control panel to be mounted in house. provide audio and visual alarm on circuit separate Note: TANK VOLUMES BELOW OFF FLOAT - 6" to separate circuit breakers DOSE VOLUME (daily flow = 980) BETWEEN ON AND ALARM FLOATS ABOVE ALARM FLOAT (EMERGENCY STORAGE) MINIMUM REQUIRED EMERGENCY STORAGE TOTAL TANK VOLUME 3" SDR 26 PVC force main to leachfield DOSE VOLUME INCLUDES ±400 GALLONS FROM FORCE GALLON DOSE TO LEACHFIELD

937 GALLONS

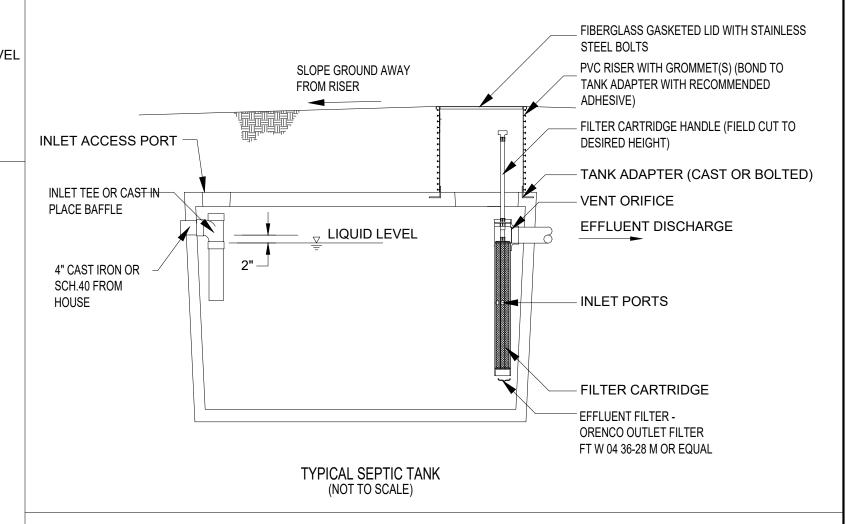
980 GALLONS

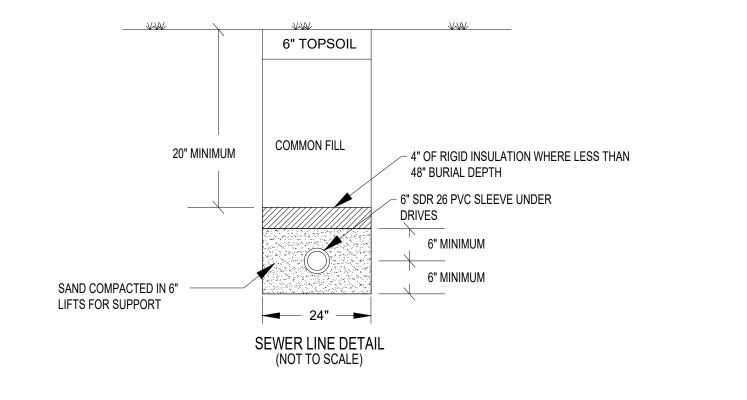
2017 GALLONS

TYPICAL 2000 GALLON SEPTIC TANK Tank Capacity Inlet (A) Outlet (B) Height (C) Liquid (D) Weight 2000 gallon 54" As Required 72" 45" 21,900 lbs

Section

PVC Inlet Baffle—





DETAILS

FALCON PROPERTY MANAGEMENT PARTNERS, L.P. RELOCATION OF MOBILE HOME UNITS

RICHMOND, VT MEADOW LANE

McCAIN CONSULTING, INC. SCALE : 1" = 30' DESIGNED BY: AL PROJECT #40004 93 SOUTH MAIN STREET DRAWN BY: WDB CHECKED BY: AL, GNM WATERBURY, VERMONT 05676

DATE: JULY 2, 2020 SHEET

GEORGE N. McCAIN Jr., P.E.

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NOTIFY MCCAIN CONSULTING OF ANY ISSUES OR

DISCREPANCIES THAT ARISE FROM THAT REVIEW.

ACTIVITIES, COMPONENT LOCATIONS, SPECIFICATIONS, AND

DETAILS PRIOR TO COMMENCEMENT OF SITE WORK AND SHALL

VT P.E. 92506